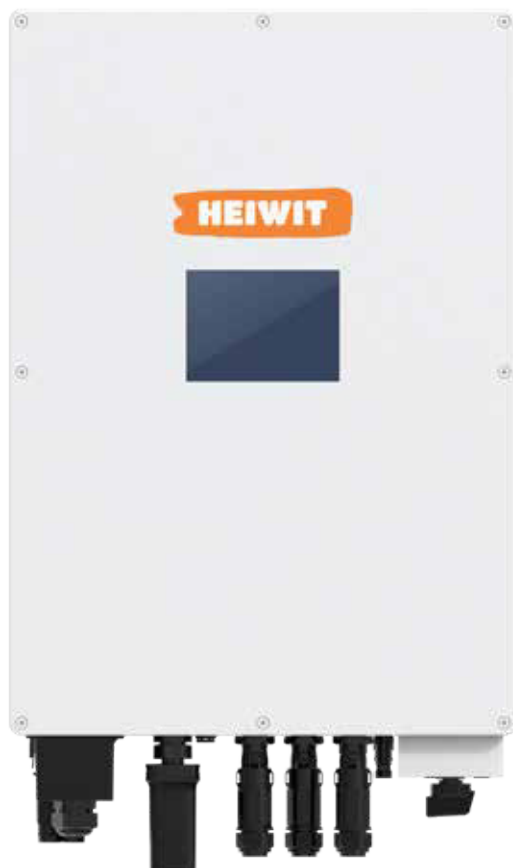


Lybra Hybrid

6/10/12 kW



- On/off-grid
- Three Phase
- Low Voltage
- 10-year Italian warranty

PRODUCT FEATURES

SiC Technology — Max. efficiency 98.2%

2 independent battery inputs (mix old/new)

200–480% grid power, max. 24 kW

150–200% PV power, 3 MPPT, 20A, high compatibility

6 units in parallel (Off-Grid)

165 mm ultra-thin — IP65 — Overload 166–400%

PRODUCT SPECIFICATION

	Model	Lybra 6K-T	Lybra 10K-T	Lybra 12K-T
Off-Grid Output	Rated Output Power	6 kW	10 kW	12 kW
	Maximum Output Power	6,6 kVA	11 kVA	13,2 kVA
	Peak Power & Duration	20 kVA (10s)*		
	Maximum Output Current	10 A	16 A	20 A
	Rated Output Voltage	L/N/PE, 220V / 230V / 240V		
	Switching Time	< 10 ms		
	Maximum Generator Current	36,4 A		
	Generator Voltage Range	185–276 V (P2N)		
On-Grid Parameters	Rated Output Power	6 kW	10 kW	12 kW
	Maximum Output Power	6,6 kVA	11 kVA	13,2 kVA
	Maximum Output Current	10 A	16 A	20 A
	Maximum Input Power	24 kVA		
	Rated Grid Voltage	3/N/PE, 220/380 Vac, 230/400 Vac		
	Grid Voltage Range	185–276 V (P2N)		
	Grid Frequency	50/60 ± 5 Hz		
PV Input	Maximum PV Input Power	18 kW		
	Maximum Input Voltage	800 V		
	Number of MPPT	3		
	Max Strings per MPPT	1/1/1		
	MPPT Voltage Range	130–800 V		
	Start-up Voltage	140 V		
	Maximum Input Current	20 A / 20 A / 20 A		
	Short-Circuit Current	24 A / 24 A / 24 A		
Battery Parameters	Battery Type	Sodium-Ion		
	Number of Battery Inputs	2		
	Battery Voltage Range	30–60 V		
	Charge / Discharge Current	125 A × 2		
Efficiency	Maximum Efficiency	98.20%		
	European Efficiency	97.70%		
	Max Battery Charge/Discharge Efficiency	95,00%		
General Data	Dimensions (L × W × D)	465mm*665mm*175mm		
	Weight	36 kg		
	Noise Level	< 45 dB(A)		
	Operating Temperature	-25°C ÷ +60°C (derating above 45°C)		
	Operating Altitude	4.000 m (derating above 3.000 m)		
	Cooling	Intelligent ventilation		
	Protection Degree	IP65		
	Topology	Isolated		
	Communication Interfaces	CAN (Battery) / Wi-Fi / LAN / Bluetooth / RS485		
Protections	Included Protections	DC switch; Reverse polarity protection; Overcurrent/Short-circuit AC protection; Anti-islanding protection; Residual current monitoring; Insulation resistance detection; Surge protection; Type II SPD / AC Type III		
Certifications	CE-LVD	IEC62109-1&2, IEC62040-1		
	CE-EMC	EN61000-6-1/2/3/4; EN61000-4-16/18/29		
	Grid Connection	VDE-AR-N 4105; VDE 0126-1-1; EN 50549-1; G98; G100; CEI 0-21; AS/NZS4777.2; NRS 097-2-1		

* The overload output power depends on the availability of energy from the photovoltaic system and the battery.

Note: The technical parameters are for reference only. Actual parameters are subject to the shipped product.